Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/549,290	HATANO ET AL.	
Examiner	Art Unit	
KALLAMBELLA VIJAYAKUMAR	1793	

		VIJAYAKUMAR		
The MAILING DA	TE of this communication appe	ars on the cover sheet with the o	correspondence add	ress
		LICATION IN CONDITION FOR AL		
 The reply was filed after application, applicant m application in condition f 	a final rejection, but prior to or on ust timely file one of the following for allowance; (2) a Notice of Appe	the same day as filing a Notice of a replies: (1) an amendment, affidavieal (with appeal fee) in compliance CFR 1.114. The reply must be filed	Appeal. To avoid abar it, or other evidence, w with 37 CFR 41.31; or	which places the r (3) a Request
b) The period for reply ex no event, however, will Examiner Note: If box	If the statutory period for reply expire la	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE	g date of the final rejection	on.
have been filed is the date for pur under 37 CFR 1.17(a) is calculate set forth in (b) above, if checked.	rposes of determining the period of exted from: (1) the expiration date of the s	on which the petition under 37 CFR 1.1 sension and the corresponding amount shortened statutory period for reply origing than three months after the mailing data	of the fee. The appropria inally set in the final Offic	ate extension fee be action; or (2) as
filing the Notice of Appe	al (37 CFR 41.37(a)), or any exter	liance with 37 CFR 41.37 must be ansion thereof (37 CFR 41.37(e)), to ithin the time period set forth in 37	avoid dismissal of the	
3. The proposed amendm (a) They raise new is: (b) They raise the iss (c) They are not deer appeal; and/or	sues that would require further cor ue of new matter (see NOTE belo ned to place the application in bet	ter form for appeal by materially red	TE below); ducing or simplifying t	
	itional claims without canceling a c See 37 CFR 1.116 and 41.33(a)).	corresponding number of finally reje	ected claims.	
		21. See attached Notice of Non-Co	mnliant Amendment (DTOL 324)
	vercome the following rejection(s):		Inpliant Amendment (1 1 OL-324).
= '' ''		owable if submitted in a separate,	timely filed amendmer	nt canceling the
how the new or amende The status of the claim(s) Claim(s) allowed: <u>2-11</u> . Claim(s) objected to: Claim(s) rejected: <u>12</u> . Claim(s) withdrawn from	ed claims would be rejected is proves) is (or will be) as follows: n consideration:	☑ will not be entered, or b) ☑ wil vided below or appended.	ll be entered and an e	xplanation of
AFFIDAVIT OR OTHER EVID		t before or on the date of filing a Ne	ation of Annaal will not	t ha antarad
because applicant failed		t before or on the date of filing a No d sufficient reasons why the affidav		
entered because the aff showing a good and suf	idavit or other evidence failed to o ficient reasons why it is necessary	a Notice of Appeal, but prior to the vercome <u>all</u> rejections under appear and was not earlier presented. Se	al and/or appellant fail ee 37 CFR 41.33(d)(1	s to provide a).
TU. ☐ The aπidavit or other e	•	n of the status of the claims after e	ntry is below or attach	ea.
11. 🛛 The request for recons See Continuation Shee		t does NOT place the application ir	n condition for allowan	ce because:
12. ☐ Note the attached Info 13. ☑ Other: <u>PTO-892 Attach</u>	rmation <i>Disclosure Statement</i> (s). (n <u>ed</u> .	PTO/SB/08) Paper No(s)		
/Stanley Silverman/ Supervisory Patent Exami	iner, Art Unit 1793			

Continuation of 11. does NOT place the application in condition for allowance because:

Applicants arguments filed 05/21/2008 have been fully considered and fail to overcome the rejection of claim-12 for the following reasons: In response to the high ionic conductivity over a wide range of temperature and small crystallite sizes (Res, Pg-3, Para-2 and 3), they are not the limitations of the instant claim-12, and although "That claims are interpreted in light of the specification does not mean that everything in the specification must be read into the claims." Raytheon Co. v. Roper Corp., 724 F.2d 951, 957, 220 USPQ 592, 597 (Fed. Cir. 1983), cert. denied, 469 U.S. 835 (1984).

In response to Badwal does not teach or suggest the instant claimed structure, influence of the β -phase on the claimed structure, of minimizing the crytallite size, and effectively omitting the β -phase (Pg-3, Para-3), Badwal teaches ion-coducting single phase cubic SCZ (Sc2O3: 9.0, 9.3, 9.5 mol%) compositions that meets the ratio limitations/structure in the claim-12 (Pg-93, Results and discussion), because the instant claimed limitation of I-cubic/(I-cubic + I-beta) \geq 90% includes the range 90-100% cubic i.e. elimination of beta phase as argued by the applicants. Crytallite size or minimizing it is not the limitation of the instant claim-12.

The same argument applies to Tanaka Reference (Res, Pg-4, Para-1) and the < 5 mol% monoclinic phase (x) in Tanaka encompasses a range 0<x< 5 mol% that is not excluded by the instant claim limitation of "comprising".

With respect to unexpected results (Res, Pg-3, Para-2), the data in Tables 1 and 4 does not cover the instant claimed range, and it is not commensurate in scope to show that the instant claimed composition produced by a specific method steps is materially different than the prior art compositions which are encompassed by the instant claim limitation. Furthermore, the scandia-zirconia compositions that are either same or substantially same as in instant claim-12 have cubic crystalline structure and high ionic conductivity as shown by Ishi wt al (JP 05-225820; Abstract; IDS 06/16/2005; Also see Ukai, US 6,787,261, Cl-7, Tbl-1; Ukai: US 7,108,938, Cl-16, Tbl-2).

For the reasons set forth above applicants fail to patentably distinguish their product by process composition over the prior art.

/KMV/ May 30, 2008.